



Attorney's Docket No. 5489P017
Confirmation No.: 7170

IFN
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Seok-Hyun Yun

Application No.: 10/650,386

Filed: August 27, 2003

For: METHOD AND APPARATUS FOR AN
ACOUSTO-OPTIC FILTER THAT
GENERATES A HELICAL WAVE AND
METHOD FOR MANUFACTURING
SAME

Examiner: Hasan, Mohammed A.

Art Unit: 2873

Mail Stop Amendment:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to MS: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 23, 2005
(Date of Deposit)

Dianne Neathery

(Typed or printed name of person mailing correspondence)

Dianne Neathery

(Signature of person mailing correspondence)

2-23-05

Appl. No.: 10/650,386
Filing Date: August 27, 2003

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LJV/cak (10/27/04)
Atty. Docket: 5489P017

02/28/2005 CCNAU1
00000001 10650386
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37 C.F.R. §1.97(b).

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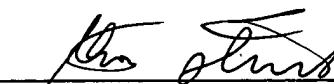
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If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

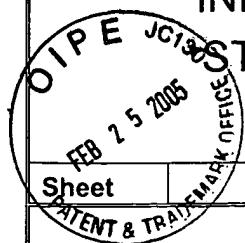
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: February 23, 2005



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Sheet

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of

4

Attorney Docket Number

10/650,38

Application Number

10/650,386

Filing Date

August 27, 2003

First Named Inventor:

Seok-Hyun Yun

Art Unit

2873

Examiner Name

Hasan, Mohammed A

U.S. PATENT DOCUMENTS

Examiner Signature		Date Considered	
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Sheet 2 of 4

Complete if Known

Application Number	10/650,386
Filing Date	August 27, 2003
First Named Inventor:	Seok-Hyun Yun
Art Unit	2873
Examiner Name	Hasan, Mohammed A.

Attorney Docket Number 5489P017

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	2	B.Y. Kim, J. N. Blake, H.E. Engan, and H.J. Shaw, "Acousto-Optic Frequency-Shifting in Two-Mode Optical Fibers," OFS '86, Tokyo, Japan (October 8-10, 1986).	
	3	H.E. Engan, B.Y. Kim, J.N. Blake, and H.J. Shaw, "Propagation and optical interaction of guided acoustic waves in two-mode optical fibers," Journal of Lightwave Technology, Vol. 6, No. 3, pp. 428-436 (March 1988).	
	6	H.E. Engan, D. Ostling, P.O. Kval, and J.O. Askautrud, "Wideband Operation of Horns for Excitation of Acoustic Modes in Optical Fibers," Proc. OFS (10), Glasgow, Scotland, 11th - 13th Oct. 1994, pp. 568-571 (SPIE Proc. 2360).	
	7	D. Ostling and H.E. Engan, "Narrow-Band Acousto-Optic Tunable Filtering in a Two-Mode Fiber," Optics Letters, Vol. 20, No. 11, pp. 1247-1249 (June 1, 1995).	
	8	H.E. Engan, "Analysis of Polarization Mode Coupling by Acoustic Torsional Waves in Optical Fibers," J. Opt. Soc. Am. A., Vol. 13, No. 1, pp. 112-118 (January 1996).	
	13	H.E. Engan, "Acoustic Torsional Waves used for Coupling Between Optical Polarization Modes in Optical Fibers," 1996 IEEE Ultrasonics Symposium, pp. 799-802.	
	14	D. Ostling and H.E. Engan, "Acousto-Optic Tunable Filters in Two-Mode Fibers," Optical Fiber Technology, Vol. 3, pp. 177-183 (1997).	

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Art Unit	2873
Examiner Name	Hasan, Mohammed A.

Sheet **3** of **4** Attorney Docket Number **5489P017**

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	19	W.P. Risk, G.S. Kino, and H.J. Shaw, "Fiber-Optic Frequency Shifter Using a Surface Acoustic Wave Incident at an Oblique Angle," Optics Letters, Vol. 11, No. 2, pp. 115-117 (February 1986).	
	21	W.P. Risk and G.S. Kino, "Acousto-Optic Fiber-Optic Frequency Shifter Using Periodic Contact with a Copropagating Surface Acoustic Wave," Optics Letters, Vol. 11, No. 5, pp. 336-338 (May 1986).	
	30	B.Y. Blake, et al., "Fiber-Optic Modal Coupler using Periodic Microbending," Optics Letters, Vol. 11, No. 3, pp. 177-179 (March 1986).	
	31	B.Y. Kim, et al., "All-Fiber Acousto-Optic Frequency Shifter," Optics Letters, Vol. 11, No. 6, pp. 389-391 (June 1986).	
	32	W.V. Sorin, et al., "Highly Selective Evanescent Modal Filter for Two-Mode Optical Fibers," Optics Letters, Vol. 11, No. 9, pp. 581-583 (September 1986).	
	34	B.Y. Kim, et al., "Use of Highly Elliptical Core Fibers for Two-Mode Fiber Devices," Optics Letters, Vol. 12, No. 9, pp. 729-731 (September 1987).	
	36	H.E. Engan, et al., "Propagation and Optical Interaction of Guided Acoustic Waves in Two-Mode Optical Fibers," IEEE Journal of Lightwave Technology, Vol. 6, No. 3, pp. 428-436 (March 1988).	
	41	S.H. Yun, et al., "All-fiber Tunable Filter and Laser Based on Two-Mode Fiber," Optics Letters, Vol. 21, No. 1, pp. 27-29 (January 1996).	
	45	H.S. Kim, et al., "All-Fiber Acousto-Optic Tunable Notch Filter with Electronically Controllable Spectral Profile," Optics Letters, Vol. 22, No. 19, pp. 1476-1478 (October 1, 1997).	
	54	S.Y. Huang, et al., "Mode-Characteristics of Highly Elliptical Core Two-Mode Fibers under Perturbations," OFS '88, New Orleans, Louisiana, pp. 14-17 (January 27-29, 1988).	
	59	S.H. Yun, et al., "All-Fiber Acousto-Optic Tunable Filter," OFC '95, San Diego, California, pp. 186-187 (February 26 - March 3, 1995).	

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Sheet	4	of	4	Attorney Docket Number	5489P017
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	72	B.Y. Kim, et al., "Fiber Based Acousto-Optic Filters," OFC/IOOC '99, San Diego, California, USA, pp. 199-201, Invited Paper (February 21-26, 1999).	
	75	B.Y. Kim, "Acousto-Optic Components for WDM Application," IEEE/LEOS Summer Topical Meetings, San Diego, California, USA, pp. 47-48, Invited Papers (July 26-28, 1999).	
	76	B.Y. Kim, "Acousto-Optic Filters for Fiber Systems," ICO-128, San Francisco, California, USA, pp. 92-93, Invited Paper (August 2-6, 1999).	
	166	H.S. Kim, S.H. Yun, I.K. Hwang, and B.Y. Kim, "Single-Mode-Fiber Acousto-Optic Tunable Notch Filter with Variable Spectral Profile," Conference on Optical Fiber Communications, 1997 OSA Technical Digest Series, Vol. 6, pp. 395-398 (February 16-21, 1997)	

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